1 Converting Standby LED to Power-ON LED

1.1 Functional Description

On units with DC converter serial numbers lower than 97392011, the green LED on the left next to the plug symbol on the Julian front panel indicates that Julian is in the standby position.

Units with a DC converter serial number of 97392011 and above feature a design modification introduced by the DC converter manufacturer, whereby the green LED on the left next to the plug symbol on the Julian front panel indicates that mains voltage is being applied.

These instructions describe how to convert a standby LED to a power-ON LED.

1.2 Conversion Instructions

- Switch off Julian.
- Disconnect Julian power plug from AC outlet.

Hazardous voltage! Disconnect power plug from AC outlet before opening unit.

- Unscrew back wall.

A short circuit in the connecting cable (power supply unit to DC/DC converter) will result in sparking and cause destruction of power supply unit and rechargeable batteries. Voltage is still present even with power plug pulled out of AC outlet. Always disconnect connecting cable from power supply unit first.

- Disconnect connecting cable from power supply unit and DC/DC converter.
- Remove DC converter.

Electrostatic discharge can damage electrostatic sensitive devices. Use a static-dissipative mat and a wrist strap when handling electrostatic sensitive devices.

- Remove DC converter cover.

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- Remove fastening screws from DC converter front panel to allow removal of DC converter mainboard.
- Remove mainboard fastening screws.
- Place mainboard with component side facing downwards on anti-static mat.
- Disconnect conductor tracks 1 and 2 at marked locations as shown in Figure "Conductor track side of DC converter mainboard".
- Use Teflon stranded wire to make wire link between marked soldering eyelets as shown in figure.
- Jumper gap 1 using diode 1N4148 as shown in Figure "Conductor track side of DC converter mainboard" (solder anode to center pin of outer pin row).

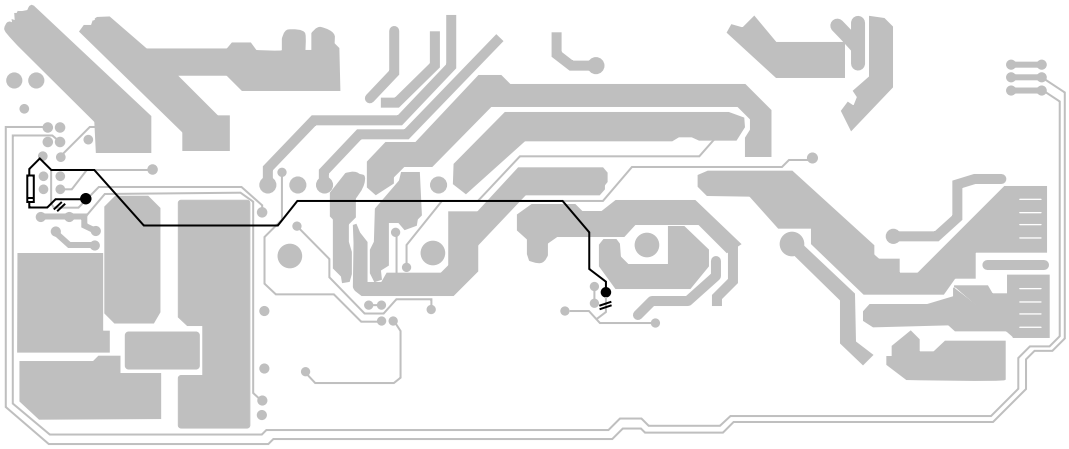

Fig. 1: Conductor track side of DC converter mainboard

- Install DC converter mainboard using reverse method of that used for removal.
- Fit DC converter in Julian.
- Screw on back wall of Julian.

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1.3 Final Tests

- Perform safety tests according to Julian Test Certificate.
- Connect Julian to pipeline system and AC outlet (power-ON LED should come on).
- Switch on Julian and perform full self test (power-ON LED should remain on).
- As soon as Julian is in standby position, disconnect power plug from AC outlet (power-ON LED should go out, battery symbol in top right corner of screen should start to flash after a few seconds).
- Connect Julian power plug to AC outlet (power-ON LED should come on, battery symbol in top right corner of screen should disappear after a few seconds).
- Switch off Julian (power-ON LED should remain on).
- Disconnect power plug from AC outlet (power-ON LED should go out).
- Switch on Julian (power-ON LED should remain off, Julian should not start self-test, buzzer should sound).
- Switch off Julian and connect power plug to AC outlet.

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